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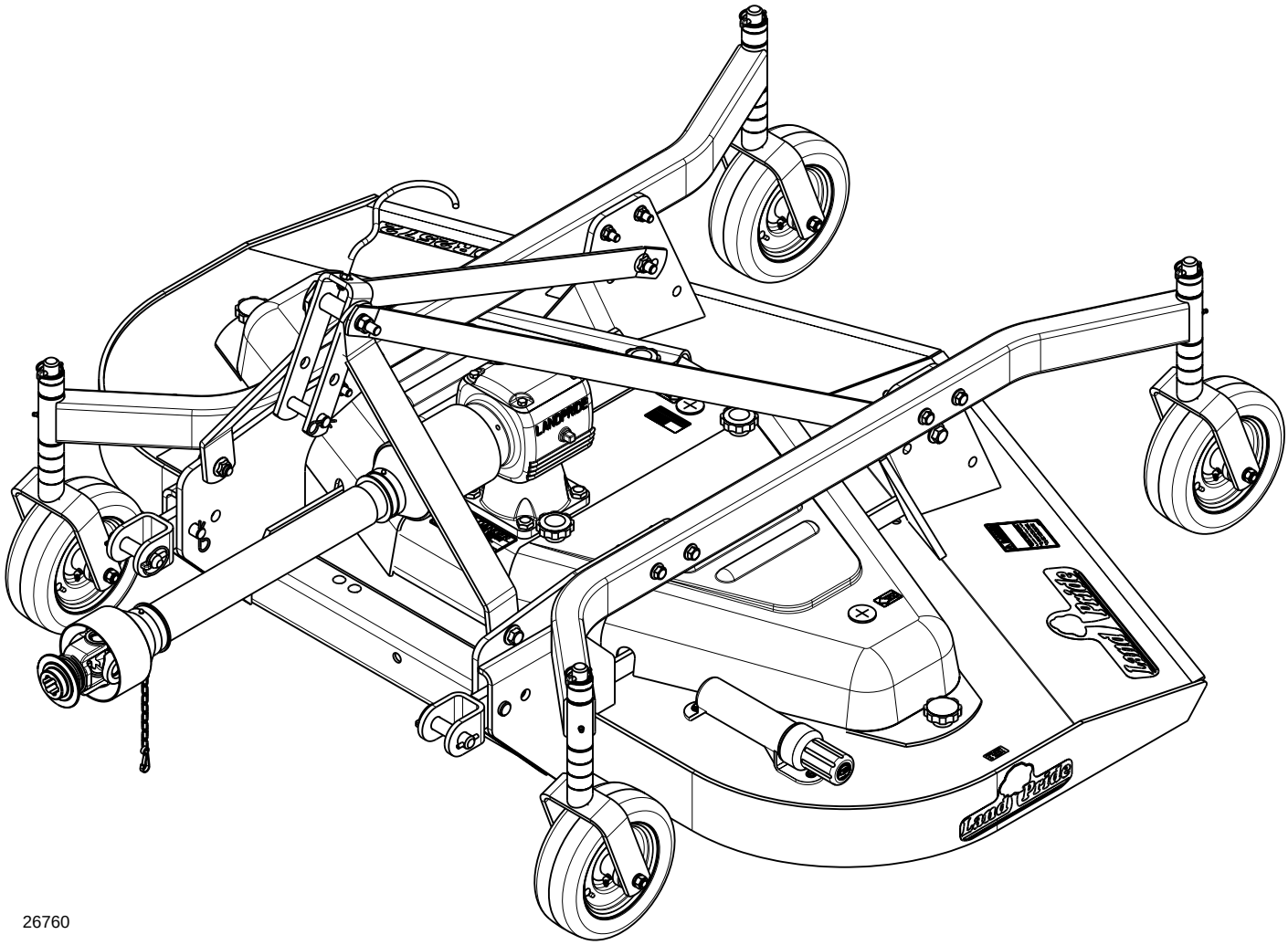
Rear Discharge Grooming Mowers

FDR2572 & FDR2584



26760

310-262M
Operator's Manual

Land Pride

Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.

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These are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

- ▲ Operator should be familiar with all functions of the unit.
- ▲ The operator must not use drugs or alcohol as they can change the alertness or coordination of that person while operating equipment. The operator should, if taking over-the-counter drugs, seek medical advice on whether he/she can safely operate the equipment.
- ▲ Operate implement from the driver's seat only.
- ▲ Make sure all guards and shields are in place and secured before operating implement.
- ▲ Do not leave tractor or implement unattended with engine running.
- ▲ Dismounting from a moving tractor could cause serious injury or death.
- ▲ Do not allow anyone to stand between tractor and implement while backing up to implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ Wear snug fitting clothing to avoid entanglement with moving parts.
- ▲ Watch out for wires, trees, etc., when raising implement. Make sure all persons are clear of working area.
- ▲ Turning tractor too tight may cause implement to ride up on wheels. This could result in injury or equipment damage.
- ▲ Do not carry passengers on implement at any time.

Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

A Signal word designates a degree or level of hazard seriousness. The signal words are:

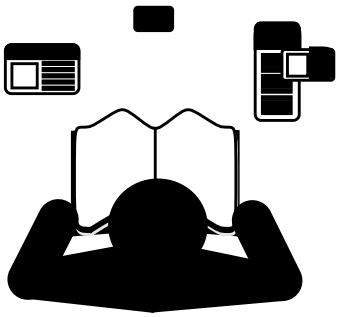
⚠ DANGER
Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

⚠ WARNING
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

⚠ CAUTION
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

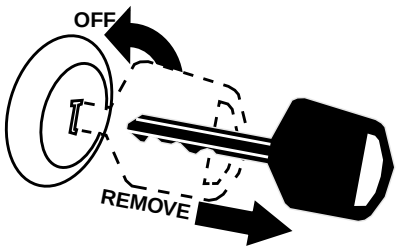
For Your Protection

- ▲ Thoroughly read and understand the "Safety Label" section, read all instructions noted on them.



Shutdown and Storage

- ▲ Lower machine to ground, put tractor in park, turn off engine, and remove the key.
- ▲ Detach and store implements in an area where children normally do not play. Secure implement by using blocks and supports.



Parts Manual QR Locator

The QR (Quick Reference) code on the front cover and to the left will take you to the Parts Manual for this equipment. Download the appropriate App on your smart phone, open the App, point your phone on the QR code and take a picture.

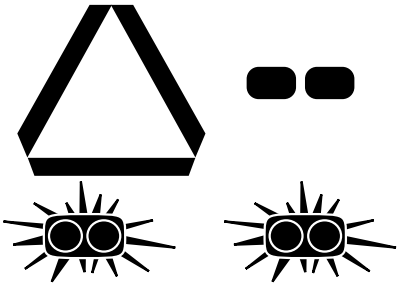
Dealer QR Locator

The QR code on the left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator on this page for detailed instructions.

These are common practices that may or may not be applicable to the products described in this manual.

Use Safety Lights and Devices

- ▲ Slow moving tractors, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.

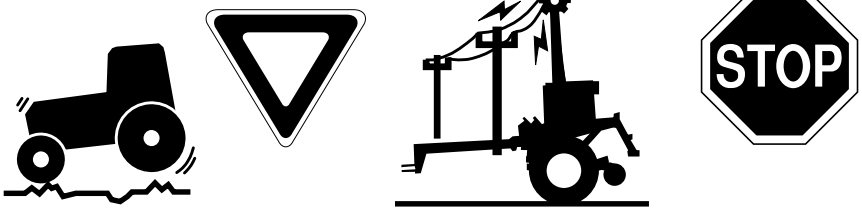


Transport Machinery Safely

- ▲ Comply with state and local laws.
- ▲ Use towing vehicle and trailer of adequate capacity. Secure tractor and attachments using tie downs and chains.
- ▲ Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.
- ▲ Avoid contact with any over head utility lines or electrically charged conductors.
- ▲ Travel up and down slopes, not across them.
- ▲ Maximum transport speed for implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrain require a slower speed.
- ▲ Use the following maximum speed - tow load weight ratios as a guideline:

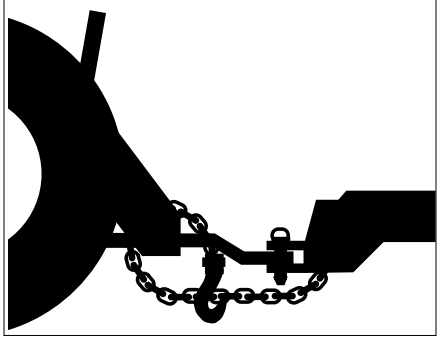
  20 mph when weight is less than or equal to the weight of tractor.

  10 mph when weight is more than weight of tractor but less than double the weight of tractor.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of tractor.



Use A Safety Chain

- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- ▲ Use a chain with the strength rating equal to or greater than the gross weight of the towed machinery.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- ▲ Do not use safety chain for towing.



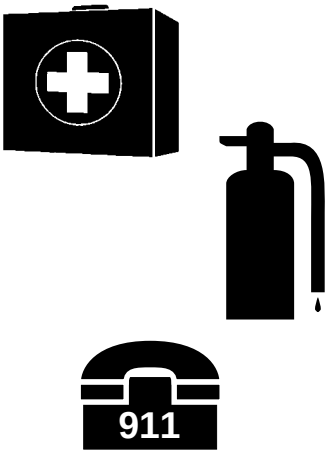
Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- ▲ Work in a clean dry area.
- ▲ Lower the implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- ▲ Allow implement to cool.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Inspect all parts. Make sure parts are in good condition & installed properly.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Remove all tools and unused parts from implement before operation.

These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital, and fire department near phone.



Wear Protective Equipment

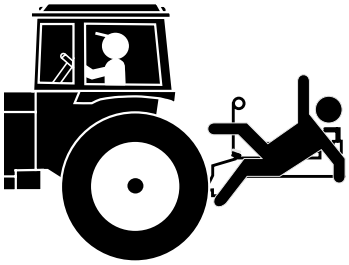
- ▲ Wear protective clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating equipment safely requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.

Avoid High Pressure Fluids Hazard

- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- ▲ Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ **DO NOT DELAY.** If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be treated within a few hours or gangrene may result.

Keep Riders Off Machinery

- ▲ Riders obstruct the operator's view, they could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children to operate equipment.



Tire Safety

- ▲ Tire changing can be dangerous and should be preformed by trained personnel using the correct tools and equipment.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- ▲ When removing and installing wheels, use wheel handling equipment adequate for the weight involved.

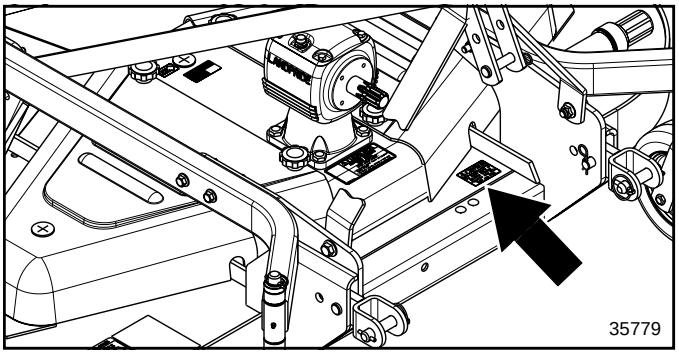
Handle Chemicals Properly

- ▲ Protective clothing should be worn.
- ▲ Handle all chemicals with care.
- ▲ Follow instructions on container label.
- ▲ Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil, and property.
- ▲ Inhaling smoke from any type of chemical fire is a serious health hazard.
- ▲ Store or dispose of unused chemicals as specified by the chemical manufacturer.

Safety Labels

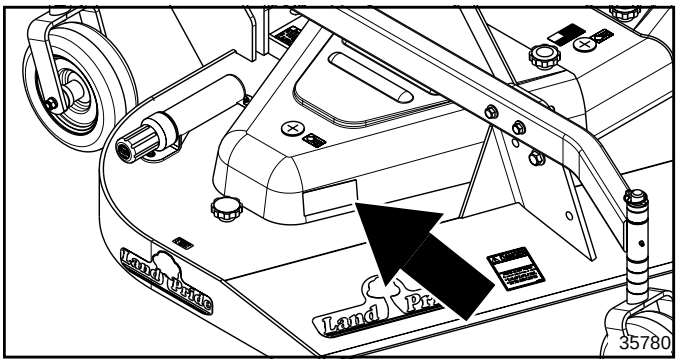
Your Grooming Mower comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

1. *Keep all safety labels clean and legible.*
2. *Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.*
3. *Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.*
4. *Refer to this section for proper label placement.*
   To install new labels:
   a. *Clean the area the label is to be placed.*
   b. *Spray soapy water on the surface where the label is to be placed.*
   c. *Peel backing from label. Press firmly onto the surface.*
   d. *Squeeze out air bubbles with the edge of a credit card or with a similar type straight edge.*



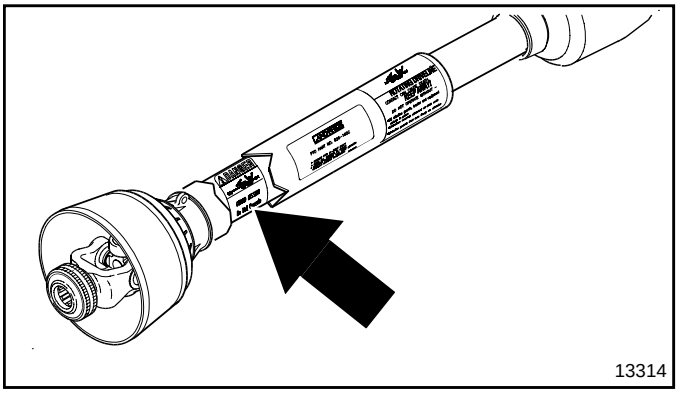
818-130C

Caution



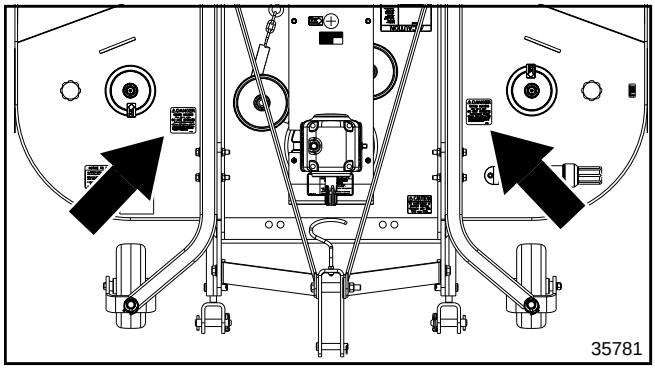
FDR2572 = 858-095C
FDR2584 = 838-614C

Red Reflector (Both Sides)



818-540C

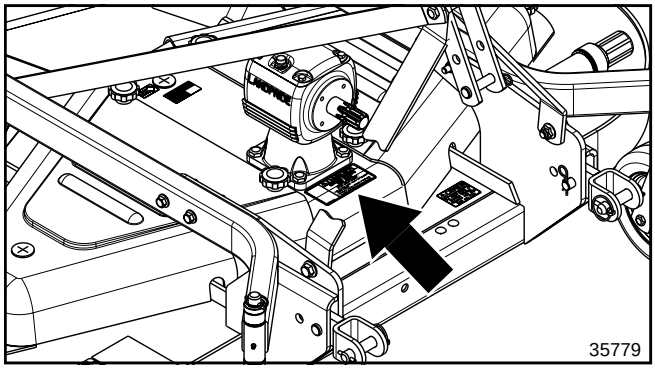
Danger: Guard Missing



DANGER
GUARD MISSING
When this is visible
DO NOT OPERATE
ENTANGLEMENT HAZARD
can cause Serious Injury or Death
Si no entiende ingles, se prefiere que busque a alguien que interprete las instrucciones para usted.
PHDC 6

818-543C

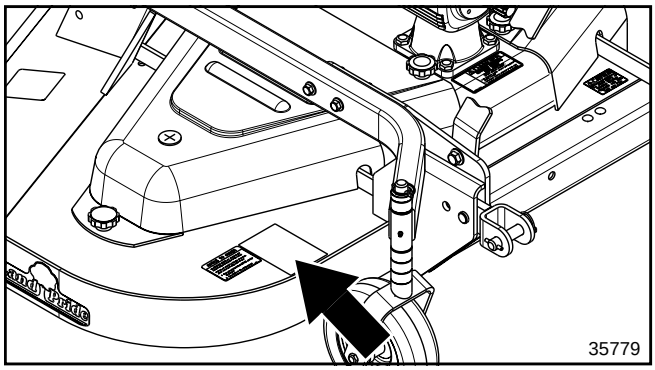
Danger: Guard Missing

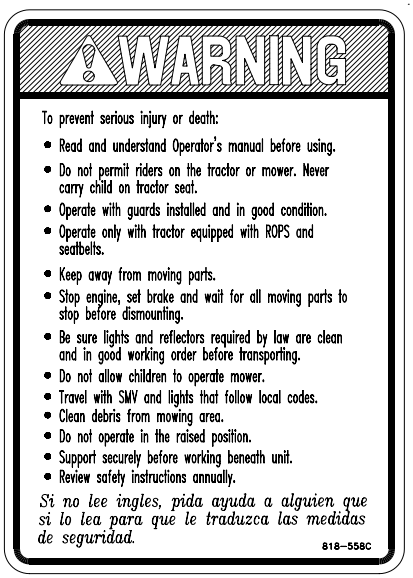


DANGER
ROTATING DRIVELINE
CONTACT WILL CAUSE INJURY OR DEATH
KEEP AWAY!
DO NOT OPERATE WITHOUT –
• All driveline guards, tractor and equipment shields in place
• Drivelines securely attached at both ends
• Driveline guards that turn freely on driveline
818-142C Rev. D

818-142C

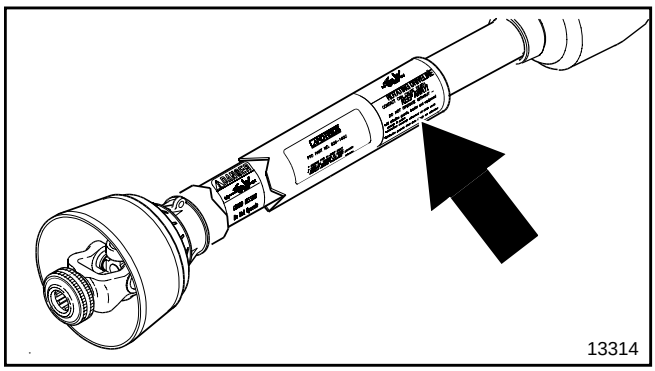
Danger: Rotating Driveline




WARNING
To prevent serious injury or death:
• Read and understand Operator's manual before using.
• Do not permit riders on the tractor or mower. Never carry child on tractor seat.
• Operate with guards installed and in good condition.
• Operate only with tractor equipped with ROPS and seatbelts.
• Keep away from moving parts.
• Stop engine, set brake and wait for all moving parts to stop before dismounting.
• Be sure lights and reflectors required by law are clean and in good working order before transporting.
• Do not allow children to operate mower.
• Travel with SMV and lights that follow local codes.
• Clean debris from mowing area.
• Do not operate in the raised position.
• Support securely before working beneath unit.
• Review safety instructions annually.
Si no lee ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad.
818-558C

818-558C

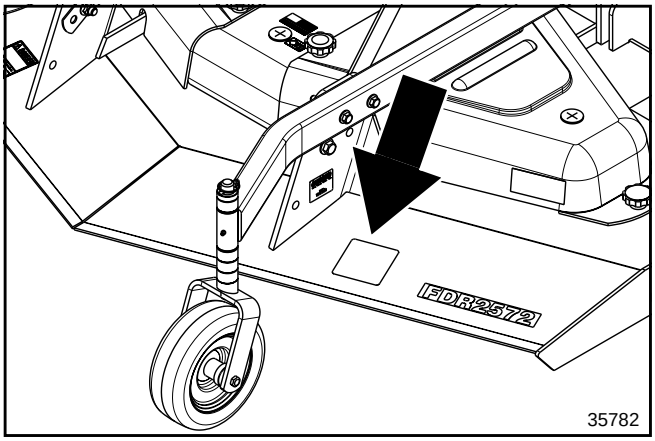
Warning: General



DANGER
ROTATING DRIVELINE
CONTACT CAN CAUSE DEATH
KEEP AWAY!
DO NOT OPERATE WITHOUT –
• All driveline guards, tractor and equipment shields in place
• Drivelines securely attached at both ends.
• Driveline guards that turn freely on Driveline
818-552C

818-552C

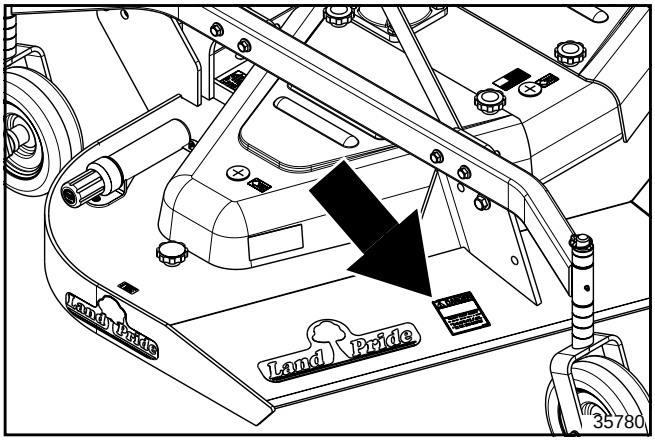
Danger: Rotating Driveline



DANGER
ROTATING BLADES–KEEP AWAY
To prevent serious injury or death from rotating blade contact:
• Never allow riders, especially children, on tractor.
• Do not operate with bystanders in mowing area.
• Do not operate with deflectors/guards removed.
• Do not place hands or feet under deck when operating or when engine is running.
818-555C

818-555C

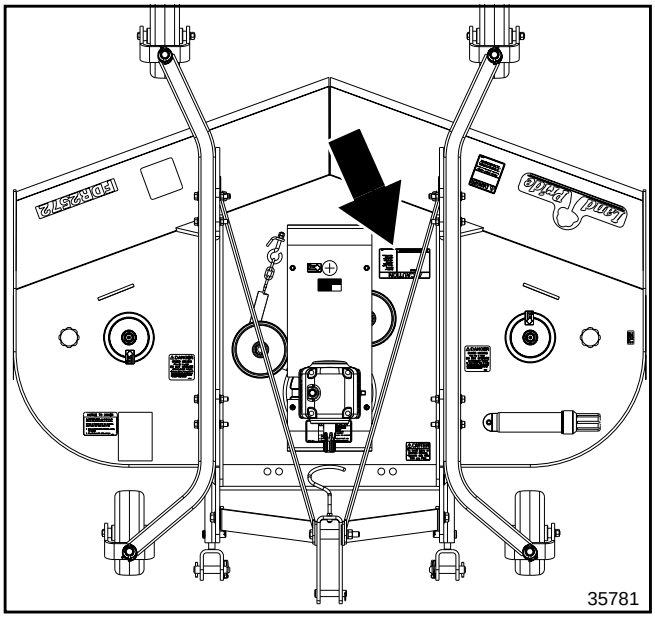
Danger: Rotating Blade

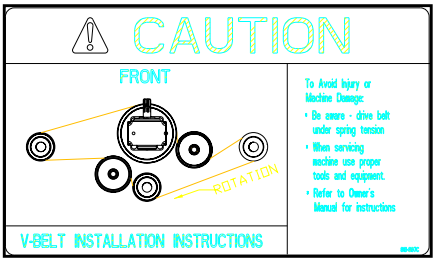


DANGER
THROWN OBJECT HAZARD
To prevent serious injury or death from thrown object:
• Operate only with all guards installed and in good condition.
• Stop operation if bystanders come within several hundred feet.
818-556C

818-556C

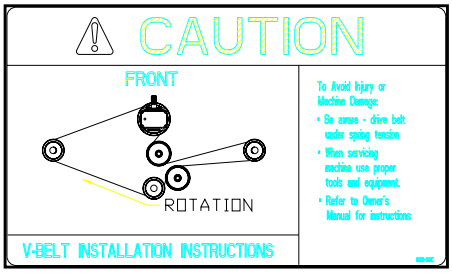
Danger: Thrown Object




CAUTION
FRONT
ROTATION
To Avoid Injury or Machine Damage:
• Be aware - drive belt under spring tension
• When servicing machine use proper tools and equipment.
• Refer to Owner's Manual for instructions
V-BELT INSTALLATION INSTRUCTIONS

838-270C

Caution: FDR2572 V-Belt Installation


CAUTION
FRONT
ROTATION
To Avoid Injury or Machine Damage:
• Be aware - drive belt under spring tension
• When servicing machine use proper tools and equipment.
• Refer to Owner's Manual for instructions
V-BELT INSTALLATION INSTRUCTIONS

838-116C

Caution: FDR2584 V-Belt Installation

Land Pride welcomes you to the growing family of new product owners.

This Grooming Mower has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this machine.

Application

Land Pride's 25 Series Rear Discharge Grooming Mower is an excellent choice for homeowners, campuses, parks, and golf courses. They are adapted for category 1 three-point hitch mounting on tractors in the 15 to 50 hp range. They are also Quick Hitch adaptable. The tapered rear design eliminates the need for rear safety chains and greatly reduces the tendency to deposit unsightly clumps of damp grass. When weather conditions allow for regular and frequent mowing intervals the rear discharge feature allows for excellent cutting quality and a very well groomed finish. Clippings are evenly discharged close behind the mower avoiding streets, sidewalks, and landscaping. The FDR25 Series also features a floating 3-Point system to allow for excellent contour following capabilities over hilly and uneven terrain.

See **"Specifications & Capacities"** on page 25 and **"Features & Benefits"** on page 26 for additional information and performance enhancing options.

Using This Manual

- This Operator's Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

Terminology

"Right" or "Left" as used in this manual is determined by facing the direction the machine will operate while in use unless otherwise stated.

Definitions

IMPORTANT: A special point of information related to the following topic. Land Pride's intention is this information must be read & noted before continuing.

NOTE: A special point of information that the operator should be aware of before continuing.

Owner Assistance

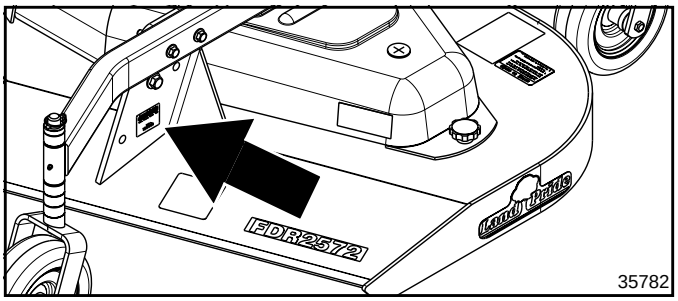
The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

The parts on your Grooming Mower have been specially designed by Land Pride and should only be replaced with genuine Land Pride parts. Contact a Land Pride dealer if customer service or repair parts are required. Your Land Pride dealer has trained personnel, repair parts, and equipment needed to service the implement.

Serial Number

Model No. _____Serial No. _____

For quick reference and prompt service, record model number and serial number in the spaces provided above and again on warranty page 29. Always provide model number and serial number when ordering parts and in all correspondences with your Land Pride dealer. Refer to Figure 1 for location of your serial number plate.



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new Grooming Mower. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss the matter with your dealership service manager making sure that person is aware of any problems you may have and has had the opportunity to assist you.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem, and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address
lpservicedept@landpride.com

FDR25 Series mowers are covered under Patent Numbers:
US D445,432 S and US D424,071 S

Tractor Requirements

Tractor horsepower rating should be between 15 and 50 horsepower. Tractors outside the horsepower range must not be used.

The rear power take-off (PTO) speed must be capable 540 RPM and have a 1 3/8"-6 spline.

A 3-Point Category I hitch is required. The lower 3-Point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

WARNING

Ballast weights may be required to maintain steering control. Refer to your tractor's operator's manual to determine proper ballast requirements.

The tractor **MUST** be equipped with protective equipment designed to shield the operator from thrown objects and from tractor roll over. An enclosed tractor cab with a Roll Over Protective Structure (ROPS) may qualify. See tractor's manual for type of protection your tractor has.

Torque Requirements

Refer to **"Torque Values Chart"** on page 28 to determine correct torque values for common bolts.

Dealer Preparations

This Grooming Mower has been partially assembled at the factory. Some assembly and preparation are still required before the mower is ready for operation and can be attached to the customer tractor.

Make sure that the intended tractor conforms to the Tractor Requirements stated above. Also, read and understand the Operator's Manual for this Grooming Mower. An understanding of how it works will aid in its' assembly and setup.

Go through the **Pre-Assembly Checklist** before assembling the mower. To speed up your assembly task and make the job safer, have all needed parts and equipment readily at hand.

Pre-Assembly Checklist

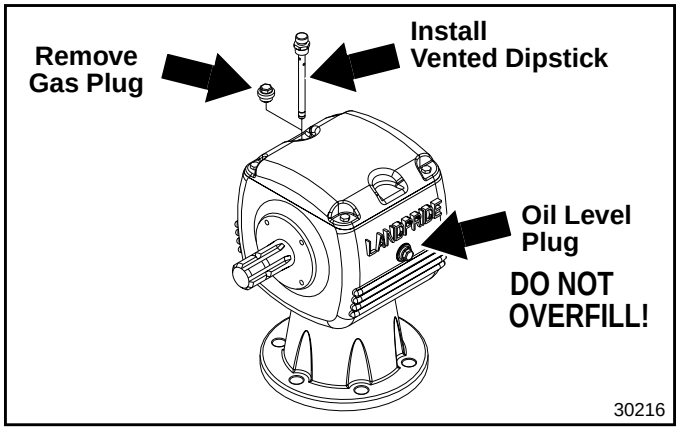
	Check	Reference
☐	Make sure miscellaneous assembly tools are on hand: Hammer, tape measure, hacksaw, assortment of wrenches & sockets, 3/8" drill, drill bits, and spirit level.	
☐	Have a forklift or hoist with properly sized chains and safety stands on hand capable of lifting 2500 lbs.	
☐	Have a minimum of two people available during assembly.	
☐	Check to see if auxiliary tractor weights are needed. See Specifications on page 25 for mower weights.	
☐	Make sure all major components and loose parts are shipped with the machine.	Operator's Manual
☐	Double check to make sure all fasteners & pins are installed in the correct location. Refer to the Parts Manual if unsure. **NOTE:** All assembled hardware from the factory has been installed in the correct location. Remember location of a part or fastener if removed. Keep parts separated.	Operator's Manual & Parts Manual
☐	Make sure working parts move freely, bolts are tight & cotter pins are spread.	Operator's Manual
☐	Make sure all grease fittings are in place and lubricated.	Section 4 Page 23
☐	Make sure all safety labels are correctly located and legible. Replace if damaged.	Important Safety Information
☐	Make sure all red reflectors are correctly located and visible when machine is in transport position.	Page 4

Vented Dipstick Installation

Refer to Figure 1-1:

IMPORTANT: Grooming Mowers are shipped with solid plugs in the gearboxes to prevent loss of oil during shipping and handling. The solid plug on top of the gearbox must be replaced with a vented dipstick before operating the mower.

A vented dipstick is shipped loose and packaged with the Operator's Manual. Remove temporary solid plug from top of gearbox and replace with vented dipstick. See your nearest Land Pride dealer if dipstick is missing.



Installation of Vented Dipstick
Figure 1-1

Upper 3-Point Hitch Assembly

Refer to Figure 1-2:

1. Remove gauge wheel assemblies (#2), rear hitch braces (#5), A-Frame hitch braces (#4), and lower clevis hitches (#1) from shipping crate.
2. Attach rear hitch braces (#5) inside of rear hitch mounting plates with 5/8"-11 x 1 3/4" GR8 bolts (#9) and flanged lock nuts (#11). Do not tighten nuts.
3. Attach A-Frame hitch braces (#4) inside front hitch mounting plates with 5/8"-11 x 1 3/4" GR8 bolts (#9) and flanged lock nuts (#11). Do not tighten nuts.
4. Remove 5/8" x 5 1/2" bolt (#8), lockwasher (#12), and nut (#10) from upper pivoting hitch (#6). Don't let spacer tube (#7) fall from upper pivoting hitch.
5. Swing A-frame hitch braces (#4) up to a vertical position. Raise rear hitch braces (#5) up and outside of A-Frame hitch braces as shown.
6. Position upper pivoting hitch (#6) with driveline hook hanging down as shown. Assemble upper pivoting hitch (#6) and spacer tube (#7) in-between A-frame hitch braces (#4) with existing bolt (#8), lock washer (#12), and hex nut (#10).
7. Tighten 5/8"-18 GR5 bolt (#8) to the correct torque.
8. Tighten 5/8"-11 GR8 bolts (#9) to the correct torque.

Gauge Wheel Assembly

Refer to Figure 1-2:

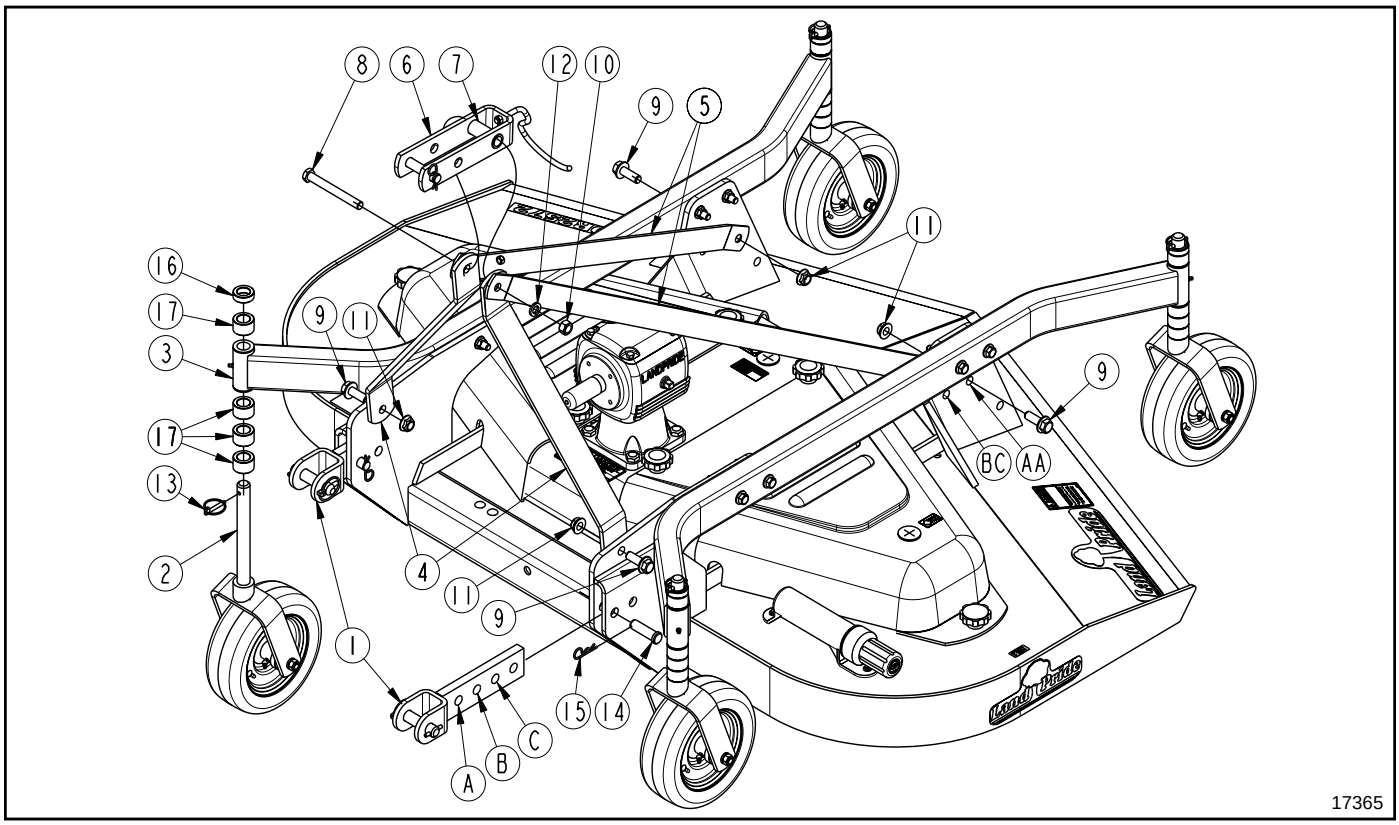
1. Remove factory bolts from top of gauge wheel spindles (#2).
2. Remove gauge wheel shipping brackets from gauge wheels (#3). Keep spacers (#16 & #17) with their respective gauge wheels.Discard shipping brackets.
3. Insert gauge wheel yoke spindles (#2) into gauge wheel arms (#3) with three 1" spacers (#17) below each arm. Install remaining spacers (#16 & #17) above each arm.
4. Remove linchpins (#13) from clevis hitch pin (#1). Secure gauge wheels (#2) to gauge wheel arms (#3) with linchpins (#13).

Lower 3-Point Clevis Hitch Assembly

Refer to Figure 1-2:

1. Using hole "A", attach lower clevis hitches (#1) to front mounting plates with clevis pin (#14) and hairpin cotter (#15) as shown.

NOTE: The 3-Point hitch system is designed for front to back flotation when mowing on uneven terrain. Additional field flotation and/or tractor clarence can be obtained by mounting clevis hitches (#1) with hole "B" or "C". Rear brace bars (#6) may need to be moved to holes "BC".



Hitch Braces Assembly
Figure 1-2

Tractor 3-Point Hook-up

DANGER

A Crushing Hazard exists when hooking-up equipment to a tractor. Do not allow anyone to stand between tractor and implement while backing-up to implement. Do not operate hydraulic 3-Point lift controls while someone is directly behind the tractor or near the implement.

DANGER

Always set tractor transmission in park, engage park brake, shut tractor engine off and remove switch key before allowing anyone including the operator to hook-up and unhook the Grooming Mower from the tractor.

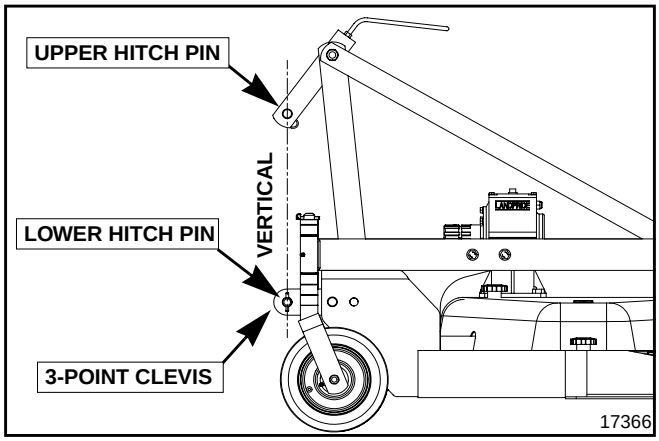
Refer to Figure 1-3:

1. Ensure lower arms are stabilized to prevent excessive side movement. Most tractors have sway blocks or adjustable chains for this purpose.
2. Be certain tractor draw bar will not interfere. Move draw bar ahead or remove if required. Draw bar should also be checked for clearance when unit is being raised for the first time with driveline installed.
3. Slowly back tractor up to the Grooming Mower while using 3-Point hydraulic control to align hitch holes in 3-Point lower lift arms with holes in hitch clevis (#2).
4. Engage tractor park brake, shut engine off, and remove key before dismounting from tractor.
5. Insert lower hitch pins (#1) through hitch clevis holes and lower lift arm holes. Secure hitch pins with linchpins (#5).
6. Attach the tractor's top center link to the mower's upper floating hitch (#4) with hitch pin (#6). Secure hitch pin with hairpin cotter (#7).

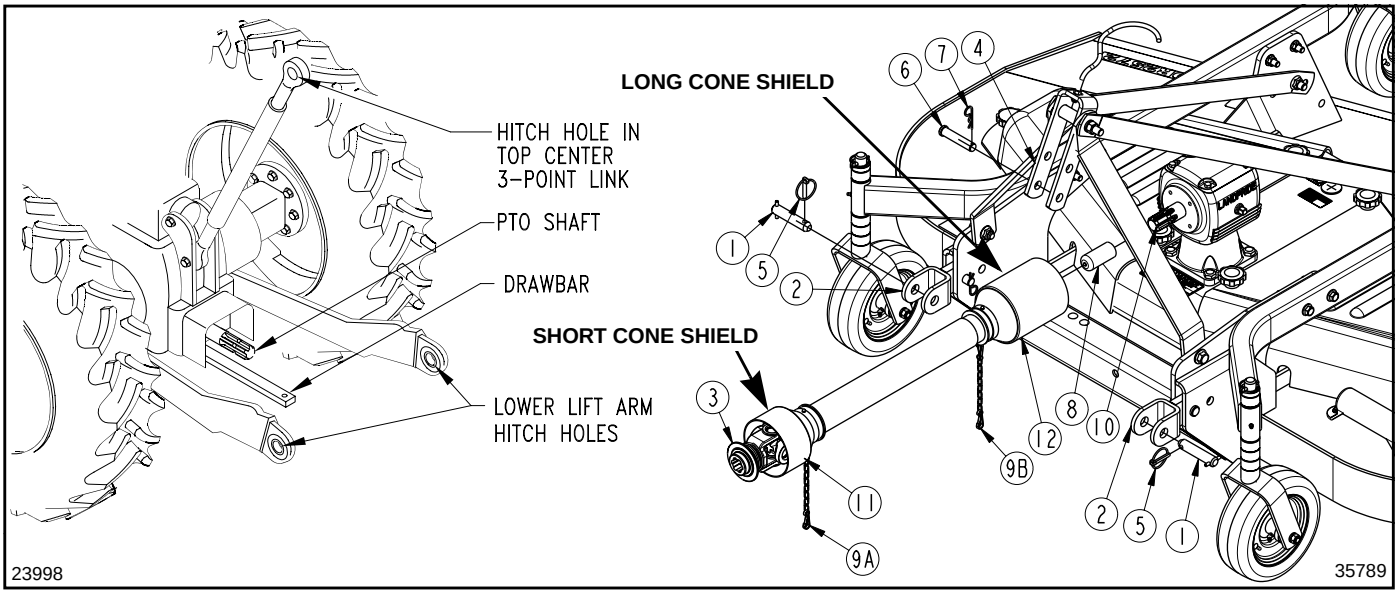
Top Center Link Adjustment

Refer to Figure 1-4:

1. Adjust lower clevises in or out when additional flotation is needed or when tractor interferes with mower frame. See **"Lower 3-Point Clevis Hitch Assembly"** on page 9 for adjustment instructions.
2. Start tractor and raise mower until gauge wheels are off the ground. Slowly lower mower until gauge wheels start to touch the ground. Continue to lower mower until 3-Point clevises are level with the ground. Set tractor 3-Point stop at this height to hold the clevises level.
3. Lower lift arms should be an equal distance off the ground. If they are not, adjust one of the arms until they are both an equal distance off the ground and 3-Point clevis are both level with the ground.
4. To allow for mower flotation, adjust tractor top center link in or out until upper hitch pin is vertically above lower hitch pins as shown in Figure 1-4.



Tractor Hook-up
Figure 1-4



Tractor 3-Point Hitch
Figure 1-3

5. Mower top link has 2 holes in it to adjust to tractor's lift capabilities. Choose the hole that enables the tractor to raise the mower to your desired height during transport.

Driveline Hook-up to Gearbox

Refer to Figure 1-3 on page 10:

IMPORTANT: The tractor's PTO shaft and mower gearbox shaft must be aligned and level with each other during installation of driveline. This alignment is the shortest distance between the two shafts.

1. Check to make certain PTO is disengaged.
2. Park tractor and mower on a level solid surface and place gear selector in park or in neutral and set park brake.
3. Slowly engage 3-Point lift lever to raise mower until gearbox shaft is in line (level) with tractor PTO shaft.
4. Support mower deck at this height with support jacks or blocks to keep mower from drifting down.
5. Shut tractor engine off and remove switch key.
6. Remove and discard gearbox shaft protector (#10).
7. Before installing driveline, apply a liberal amount of all purpose grease to both the tractor PTO shaft and gearbox shaft (#10) to ease removal at a later time.
8. Slide universal joint of inner driveline with long cone shield (#12) over mower gearbox shaft (#10). Secure driveline with yoke locking device.
9. Latch safety chain (#9B) to gearbox shaft shield. Gearbox shaft shied not shown for clarity.)
10. Verify opposite end of safety chain is secured to inner driveline yoke shield (#10).

Driveline Hook-up to Tractor

DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.

DANGER

All guards and shields must be installed and in good working condition at all times during mower operation!

WARNING

Do not over speed PTO or mower damage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO is set for 540 rpm.

WARNING

Do not use a PTO adaptor with a quick hitch. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline.

WARNING

Always disengage PTO, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting from tractor to make adjustments!

IMPORTANT: An additional driveline may be required if mower is to be used on more than one tractor, especially if a Quick Hitch is used.

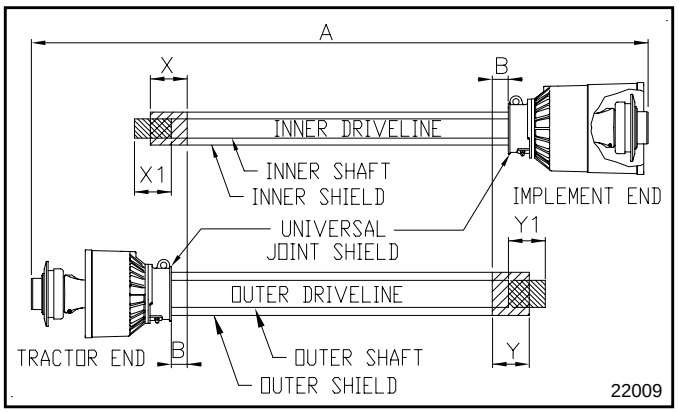
IMPORTANT: The driveline must be lubricated before putting it into service. Refer to **"Lubrication"** on page 23.

Refer to Figure 1-3 on page 10:

1. Pull outer driveline (#11) and inner driveline (#12) apart. Apply multi-purpose grease to inside of outer profile and reassemble the two profiles.
2. Pull back on pull collar (#3) and hold while starting to slide the universal joint onto the tractor's PTO shaft.

NOTE: See **"Shorten Driveline"** if driveline is too long and will not go onto the tractor's PTO shaft.

3. Once driveline starts onto the PTO shaft, release pull collar and continue to slide universal joint on until pull collar releases and locks universal joint to the tractor's PTO shaft.
4. Push and pull on yokes at both ends of driveline to make certain they are securely fastened to tractor PTO shaft and mower gearbox shaft.



Check Collapsible Length
Figure 1-5

Check Driveline Collapsible Length

Refer to Figure 1-5:

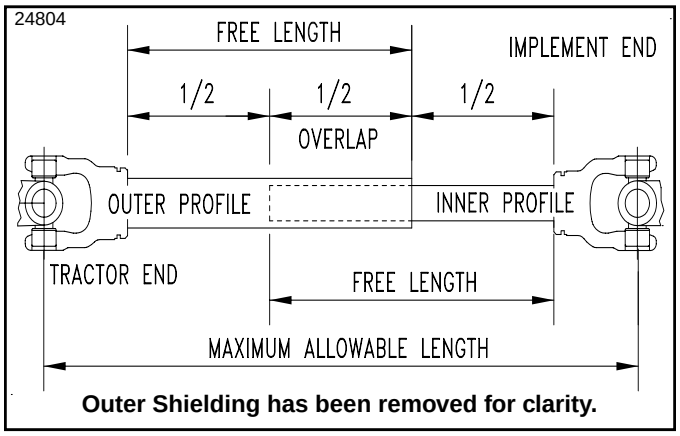
IMPORTANT: A driveline that is too long can bottom out causing structural damage to tractor and mower. Always check driveline collapsed length during initial setup, when connecting to a different tractor, and when alternating between using a Quick Hitch and a standard 3-Point hitch. More than one driveline may be required to fit all applications.

1. Make sure driveline is installed properly to the mower gearbox input shaft and tractor PTO shaft before checking driveline collapsed length. Refer to **"Driveline Hook-up to Gearbox"** and **"Driveline Hook-up to Tractor"** on page 11.
2. With driveline level, measure 1" (**"B"** dimension) back from universal joint shield to end of outer driveline shield as shown in Figure 1-5.
   a. If measurement is less than 1", shorten driveline.
   a. If measurement is 1" or more, skip to **"Check Maximum Allowable Length"** on page 12.

Shorten Driveline

Refer to Figure 1-5:

1. Un-hook safety chains and driveline from tractor PTO shaft and gearbox shaft.
2. Raise 3-Point arms until mower gearbox shaft and tractor PTO shaft are approximately level with each other.
3. Support mower deck at this height with support jacks or support blocks to keep PTO and gearbox shafts level while shorting the driveline.
4. Place gear selector in park, set park brake, shut tractor off and remove switch key.
5. Pull driveline apart as shown in Figure 1-5.
6. Attach outer driveline universal joint to tractor PTO shaft and inner driveline universal joint to mower gearbox shaft. Pull on each driveline section to be sure universal joints are properly secured.
7. Hold driveline sections parallel to each other. The inner and outer shields on each section should end approximately 1" short of reaching universal joint shield on the adjacent section (see **"B"** dimensions).
8. If driveline sections are too long, measure 1" (**"B"** dimension) back from universal joint shield and make a mark at this location on the inner and outer driveline shields.
9. Cut-off inner driveline shield at measured mark ("**X**" dimension). Cut same amount off inner driveline profile ("**X1**" dimension).
10. Repeat cut-off procedure ("**Y**" & "**Y1**" dimensions) on the outer driveline section.
    b. Remove all burrs and cuttings.



Check Maximum Allowable Length
Figure 1-6

Check Maximum Allowable Length

Refer to Figure 1-6:

Make sure driveline collapsible length is checked first. See **"Check Driveline Collapsible Length"** on page 12.

Driveline maximum allowable length, when fully extended, must have a minimum overlap of profile tubes by not less than 1/2 the free length with both inner and outer profile tubes being of equal length. Determine the maximum allowable length as follows:

1. Unhook driveline from tractor and Grooming Mower. Pull outer and inner drivelines apart.
2. Measure and record **"Free Length"** of inner and outer profiles as shown in Figure 1-6.
3. Move driveline halves together until profile tubes overlap by 1/2 the "Free Length". For future reference, measure and record **"Maximum Allowable Length"** as shown in Figure 1-6.
   Record Maximum Allowable Length here: _____
4. Reattach inner driveline yoke to gearbox shaft and outer driveline yoke to tractor's PTO shaft.
5. The driveline should now be moved back and forth to ensure that both ends are secured. Reattach any end that is loose.

Driveline Safety Chains

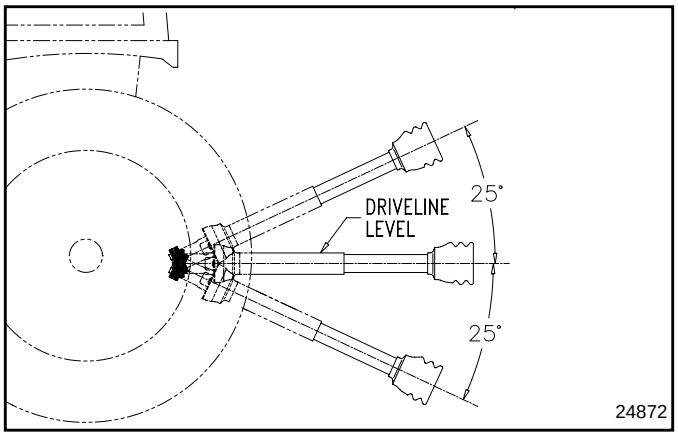
Refer to Figure 1-3 on page 10:

WARNING

Always make certain driveline yokes are secured to the tractor PTO shaft and mower drive shaft before engaging PTO. A loose driveline can slips off the end of a connected shaft while rotating and cause serious bodily injury or death.

IMPORTANT: Two safety chains are supplied with the driveline. These chains must be attached to the driveline shields and to the mower and tractor to restrict the shields from rotating.

6. Secure latch end of safety chain (#9A) to tractor drawbar or frame. Verify opposite end of safety chain is secured to the outer driveline yoke shield (#11).
7. Secure latch end of safety chain (#9B) to gearbox safety shield (not shown). Verify opposite end of safety chain is secured to the inner driveline yoke shield (#12).



Maximum PTO driveline Movement During Operation
Figure 1-7

Check Driveline Interference

WARNING

Do not operate mower in the raised position. Lifting the mower too high with driveline engaged can damage the driveline and throw flying projectiles causing serious bodily injury or death.

Refer to Figure 1-7:

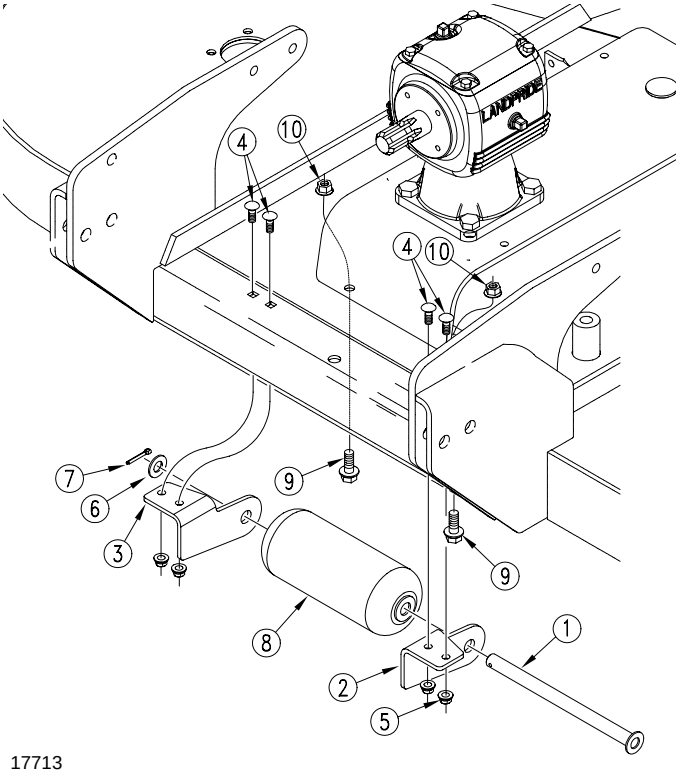
1. Start tractor and raise Grooming Mower just enough to remove support blocks.
2. Return to the tractor and slowly engage tractor hydraulic 3-Point control lever to raise and lower mower while checking for sufficient drawbar clearance. Move drawbar ahead, aside, or remove if required.
3. Raise and lower implement to find maximum extended driveline length. Check to make certain driveline overall length does not exceed maximum recorded length in step 3 under **"Check Maximum Allowable Length"** on page 12.
4. If needed, set tractor 3-Point lift height to keep driveline from exceeding maximum allowable length.

Accessory Equipment

Front Roller

Refer to Figure 2-1:

1. Remove the front two 1/2"-13 x 1 1/2" GR5 hex flange serrated screws (#9) and reinsert from the bottom as shown. Secure with existing 1/2" whiz nuts (#10). Tighten nuts to 76 ft-lbs of torque.
2. Assemble brackets (#2) and (#3) to deck with carriage bolts (#4) and flange nuts (#5).
3. Insert roller (#8) between brackets and install pin (#1) through brackets and roller. Secure with washer (#6) and cotter pin (#7).



Front Roller Assembly
Figure 2-1

Cutting Blades

There are four blade choices to select from based upon soil condition, density of grass, and tractor horsepower. The appearance of the finish cut may vary between low lift and high lift blades. See your Land Pride dealer for blade availability.

Low Lift Blades

Land Pride's low lift blades are designed for mowing over sandy soil terrain where high suction lift is not crucial. Sand sucked into the blades accelerates blade wear more than normal. Low lift blades are recommended because they produce a lower suction keeping sand uplift and blade wear to a minimum.

Medium Lift Blades (Factory Standard)

Land Pride's medium lift blades are great when horsepower is a concern. They produce a medium suction to lift grass and require less horsepower than high lift blades.

High Lift Blades

Land Pride's high lift blades develop the greatest suction for lifting grass before cutting for that fresh clean cut look. However, they may require more horsepower especially when cutting tall dense grass. They are not recommended for sandy soil conditions.

Mulching Blades

Land Pride's mulching blades are designed to chop leaves and/or grass into smaller parts leaving your lawn looking fresher and cleaner than ever before.

Accessory Part Numbers

Land Pride Part Numbers & Descriptions	
Part No.	Part Description
Front Roller Assembly	
310-254S	FDR1648, FDR1660 & FDR1672
Low Lift Blade (3 blades required per mower)	
890-200C	FDR2572
890-685C	FDR2584
Medium Lift Blade (3 blades required per mower)	
890-318C	FDR2572
890-675C	FDR2584
High Lift Blade (3 blades required per mower)	
890-172C	FDR2572
890-684C	FDR2584
Mulching Blade (3 blades required per mower)	
890-698C	FDR2572
890-706C	FDR2584

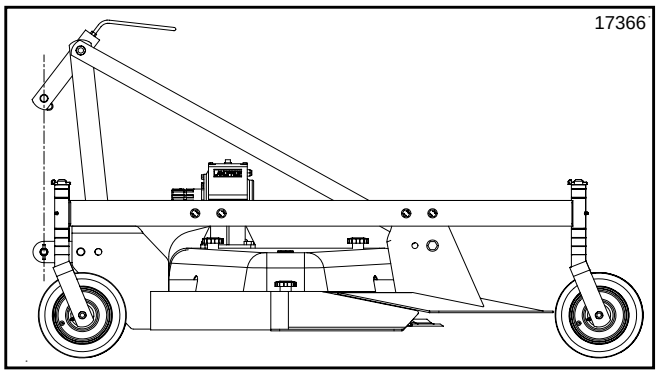
See your Land Pride dealer for blade availability.

Leveling the Mower

Refer to Figure 4-1:

NOTE: Tractor & mower should be on level ground.

1. Set lower hitches and upper floating hitch, as shown.
2. Start tractor and raise mower while watching tractor draw bar (if not removed) to make sure it does not interfere with driveline and mower.
3. Slowly lower mower until gauge wheels touch the ground and the lower mower 3-Point hitch bars are parallel to the ground in floating position. Set tractor 3-Point stop.
4. Set park brake, turn off tractor, and remove key.
5. Rotate blades parallel to direction of travel.
6. Measure clearance from the blade cutting edge to the ground at the front and rear of the mower. These two measurements should be equal or the blade at the front should not be more than 1/2" lower than the blade at the rear. The rear blade should not be lower than the front blade.



3-Point Hitch
Figure 4-1

Cutting Height Adjustment

WARNING

Always disengage PTO, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting from tractor to make adjustments!

CAUTION

Wear a pair of gloves when checking cutting height. Avoid direct contact with cutting edge of blade.

1. Using the tractor, raise mower off the ground and support under it with secure blocking to keep the mower from drifting down during maintenance.
2. Holding wheel and yoke assembly up, remove quick-lock pin from top of gauge wheel spindle.
3. Position full length spacers and half spacer as required. All spacers on top of spindle tube allows for approximately 3/4" cutting height. Adjustments range from 3/4" to a maximum of 5-1/4" in 1/2" increments. Refer to **"Leveling the Mower"** at the top of this page.

3-Point Hitch Adjustments

Refer to Figure 4-1:

The 3-Point hitch system on this mower has been designed for front to back flotation when mowing on uneven terrain. Adjust tractor's top link to place the upper hitch pin vertically above the lower hitch pins as shown.

Belt Tension

Refer to Figure 4-2:

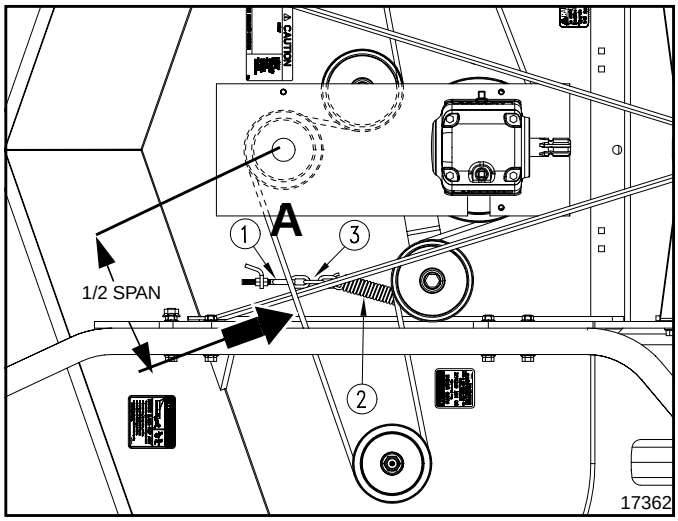
WARNING

Excessive belt tension can lead to premature damage/ breakage of belt and drive component and is a safety hazard to operator and bystanders.

CAUTION

Belt drive system is under spring tension; use care to avoid bodily harm while making adjustments to the belt!

1. To check tension apply force at arrow **A** with a tension tester and deflect the belt 1/4". The force required to get this deflection should range from 7 to 10 lbs.
2. To adjust belt tension, adjust eyebolt (#1), as necessary. This adjustment will increase or decrease the tension on spring (#2). If more tension is needed than the eyebolt can adjust take the tension spring (#2) to next link in the tension chain (#3).
3. Excessive tension on the belt may lead to premature failure of belt and drive components. Excessive tension on the belt may also lead to a safety hazard to the operator or bystanders. Not enough tension on the belt may lead to premature failure of the belt due to excessive slipping.



Belt Tension
Figure 4-2

Operating Check

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the storage, operation, transport, and maintenance of the Grooming Mower. Therefore, it is absolutely essential that no one operates the mower without first having read, fully understood, and become totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, page 1
- **Section 1: Assembly & Set-Up,** page 8
- **Section 2: Accessories & Set-up**, page 14
- **Section 3: Operating Instructions**, page 16
- **Section 4: Adjustments**, page 15
- **Section 5: Maintenance & Lubrication**, page 20

Tractor Shut Down Procedure

It is essential that the tractor be shut down as noted below before making any inspections, maintenance and/or repairs to the tractor and/or mower.

1. Park tractor on a level surface. **Don't work under or around an implement parked on a steep incline**.
2. Place tractor in park and set park brake.
3. Disengage PTO if operating.
4. Shut engine off and remove switch key.
5. Wait for PTO to come to a complete stop before dismounting tractor.
6. Wear safety glasses.

Pre-Start Checklist

Hazard control and Make sure operator has completed the Operating Checklist below.

Operating Checklist

✔	Check	Page No.
	Read and follow all Safety Information carefully. Refer to "Important Safety Information".	Page 1
	Read and follow hook-up & preparation instructions. Refer to "Assembly & Set-up".	Page 8
	Make sure all guards and shields are in place and in good working condition.	
	Make all necessary adjustments. Refer to section on "Adjustments".	Page 15
	Read and follow all Maintenance Instructions. Refer to "Maintenance & Lubrication".	Page 20
	Lubricate mower as required. Refer to "Lubrication".	Page 23
	Check oil level in gearbox. Make certain all oil plugs are properly replaced. Refer to "Gearbox".	Page 24
	Check mower initially and periodically for loose bolts and pins. Be sure all nuts and bolts are tight. Especially make sure mower blade bolts are tight. Refer to "Torque Values Chart for Common Bolt Sizes".	Page 28

Inspection Procedures

DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.

WARNING

Always disengage PTO, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to stop rotating before dismounting from tractor!

1. Park tractor and mower on a level surface.
2. Make sure tractor PTO is disengaged and mower blades have come to a complete stop.
3. Inspect tractor safety equipment to make sure it is in good working condition.
4. Carefully raise and lower implement to ensure drawbar, tires, and other equipment on the tractor do not contact the mower or driveline.
5. With PTO disengaged and driveline completely stopped, check mower blades for sharpness. See **"Service Mowing Blades"** on page 20.

The remaining inspections are made by engaging the PTO to check for normal operation.

DANGER

All guards and shields must be installed and in good working condition at all times during mower operation!

WARNING

Do not over speed PTO or mower damage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO is set for 540 rpm.

IMPORTANT: Stop PTO rotation immediately if vibration occurs during start-up or thereafter. Follow all tractor shut down procedures before dismounting from tractor. Investigate cause. Make necessary repairs and adjustments before continuing.

6. Start tractor, set throttle to an idle or slightly above idle, and slowly engage PTO. Initial start-up vibration is normal and should stop after a few revolutions. Stop PTO rotation immediately if vibration continues.
7. Once mower is running smoothly, increase tractor PTO speed to the appropriate rpm. Stop PTO rotation immediately if vibration occurs.
8. Investigate the cause of vibration. Make necessary corrections before continuing.

Transporting

WARNING

When traveling on public roads, use accessory lights, SMV sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.

WARNING

Do not exceed maximum transport speed of 20 MPH with mower attached. Travel below 20 MPH on rough terrain. The mower can lose a tire or tires can break apart causing the operator to lose control of tractor and/or implement.

NOTE: Always disengage PTO before raising mower to transport position.

1. When raising mower to transport position, be sure driveline does not contact tractor or mower. Adjust and set tractor's 3-Point hitch lift height so that the PTO shaft does not contact mower deck in the fully raised position.
2. Be sure to reduce tractor ground speed when turning and leave enough clearance so the mower does not contact obstacles such as buildings, trees, or fences.
3. Select a safe ground speed when transporting from one area to another.
4. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely. A slow moving vehicle sign should always be properly displayed when traveling on public roads or right-of-ways.
5. Shift tractor to a lower gear when traveling over rough or hilly terrain.

Safety Information

DANGER

Keep others away from the mower while it is operating. Grooming Mowers have the ability to discharge objects at high speeds causing serious injury or death. Stop blade rotation if bystanders are nearby!

DANGER

Tractor PTO shield, Gearbox shaft shield and driveline shields must be secured in place when operating mower to avoid injury or death from entanglement in driveline!

DANGER

Do not operate mower with a bent or broken driveline. Such a driveline can break apart while rotating at high speeds causing serious injury or death. Always remove mower from service until damaged driveline is repaired or replaced.

DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.

DANGER

Always disconnect main driveline from tractor PTO before servicing underside of mower. PTO can be engaged if tractor is started causing mower damage, bodily injury or death.

DANGER

All V-belt guards must be in good working condition and installed before PTO is engaged. Never allow fingers, hands, or other body extremities to come near a moving V-belt or pulley. Doing so can result in server bodily injury or death.

DANGER

Never place hands or feet under the deck or attempt to make adjustments to the mower with PTO engaged. Mower blades rotating at high speeds cannot be seen and are located close to the deck housing. Body extremities can be cut off instantly.

DANGER

Never allow riders including children on the tractor or mower. They can fall and be ran over, become entangled in rotating components, and/or pinched by moving components causing serious injury or death.

DANGER

Do not operate on or travel across steep inclines where a tractor or mower could roll-over resulting in serious injury or death. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across.

DANGER

Clear area to be cut of debris and unforeseen removable objects before mowing. Mark any potential hazards that cannot be removed such as dirt mounds, tree stumps, posts, large rocks, holes, and drop-offs with a visible flag.

DANGER

Always disengage PTO before lifting mower up and never operate mower in the raised position. The mower can discharge objects at high speeds resulting in injury or death.

DANGER

Do not use mower as a working platform. The mower is not properly designed or guarded for this use. Using mower as a working platform can cause serious injury or death.

DANGER

Do not use mower blades for a fan. Mower blades are not properly designed or guarded for this use. Using mower blades as a fan can result in serious injury and/or death.

WARNING

Use Grooming Mower for its intended purpose only. Do not use mower to lift or carry objects; to pull fence posts, stumps, or other objects; or to tow other equipment. Doing so can damage the mower, cause serious bodily injury, or death.

WARNING

Always disengage PTO, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to stop rotating before dismounting from tractor!

WARNING

Do not operate mower with loose pins, bolts and nuts. Loose hardware can cause the mower to not preform properly and may lead to breakage that can cause bodily injury or death.

WARNING

Always make certain driveline yokes are secured to the tractor PTO shaft and mower drive shaft before engaging PTO. A loose driveline can slips off the end of a connected shaft while rotating and cause serious bodily injury or death.

WARNING

Do not over speed PTO or mower damage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO is set for 540 rpm.

IMPORTANT: Stop PTO rotation immediately if vibration occurs during start-up or thereafter. Follow all tractor shut down procedures before dismounting from tractor. Investigate cause. Make necessary repairs and adjustments before continuing.

1. Clear the area to be mowed of rocks, branches, and other foreign objects that might be picked up and thrown by the mower blades. Mark any potential hazards that can't be cleared.
2. Lower mower to ground. Set tractor throttle at idle. Engage PTO to start blades rotating.
3. At first, begin mowing in a low gear and shift up until the desired speed is achieved - always maintain 540 PTO rpm regardless of gear selection. Mower blades will cut better at a faster blade speed than at reduced throttle.
4. After mowing the first 50 feet, stop and check to see that the mower is adjusted properly.
5. **Do not** make sharp turns or attempt to back up while mower is on the ground.
6. **Do not** engage PTO with mower in the fully raised position. **Do not** engage or disengage PTO at full throttle.
7. Grass is best cut when it is dry. Mowing wet grass can cause plugging resulting in grass clumps behind the mower.
8. Grass should be mowed frequently as shorter clippings deteriorate faster.
9. If mowing extremely tall grass, it is best to raise cutting height and mow the area, then lower cutting height and mow a second time at the desired height.
10. Periodically check for foreign objects wrapped around the mower blades. Remove foreign objects only after following **"Tractor Shut Down Procedure"** on page 16.
11. Frequently inspect the mower for loose bolts and nuts. Tighten all loose bolts and nuts as indicated in the **"Torque Values Chart"** on page 28.

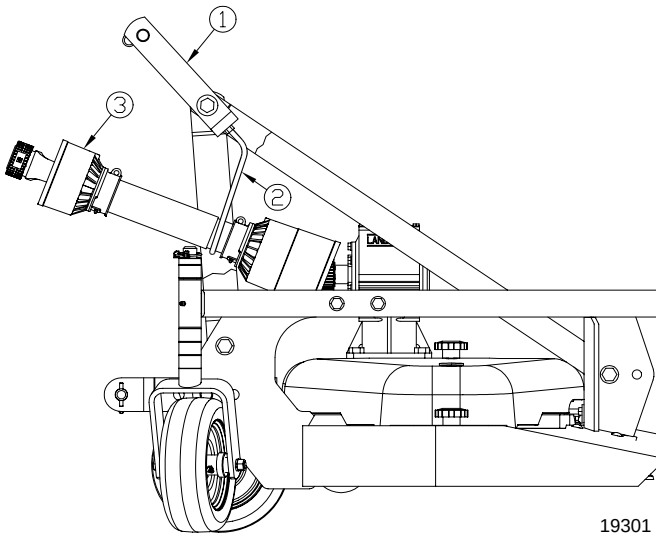
Un-hooking the Mower

The following steps should be done when un-hooking the Grooming Mower from the tractor.

1. Park on a level solid surface.
2. Shut tractor engine off and engage parking brake.
3. Lower deck to level ground or onto blocks supporting the deck just above ground level.
4. Follow all tractor shut down procedures outlined on page 16 before dismounting from the tractor.
5. Unhook 3-Point hitch from tractor. Reinstall hitch pins, linchpins, and hairpin cotters in cutter hitch.

Refer to Figure 3-1:

6. Rotate upper hitch (#1) up and store driveline (#3) in driveline hanger (#2) to keep dirt out of its u-joints.
7. See **"Storage Instructions"** on page 22 if mower is not going to be used for a long time.



Driveline Storage
Figure 3-1

General Operating Instructions

By now you should have thoroughly read your Grooming Mower Operator's Manual, properly attached your Land Pride FDR25 to your tractor, and reviewed the operating checklist. You should have also inspected the area where you intend to mow and cleared it of safety hazards and foreign objects. If you have not yet completed all of these functions, it is an absolute must that you do so now before proceeding.

Now that you are properly briefed and prepared, its time to start the tractor and move to your starting point. When transporting to your mowing site, select a safe ground transport speed. When traveling on roadways, transport in such a manner that faster moving vehicles can easily see you and pass you safely. When travelling over rough and hilly terrain, reduce your speed and avoid quick or sharp steering corrections. Take extra care to ensure that the mower doesn't come into contact with obstacles such as trees, buildings, or fences.

When you have arrived at the mowing site, start the tractor, raise the deck to make sure that everything is properly attached and that the driveline is not in a bind or in contact with the mounting frame. Also make sure the tractor tires aren't in contact with the deck. With the deck still in the raised position, proceed to your starting point and lower your deck to the ground in mowing position. Reduce your tractor engine rpm to idle and engage PTO. Gradually raise tractor engine rpm to achieve the 540-rpm PTO speed. Now begin mowing at a ground speed of approximately 4-5 mph.

The proper mowing speed will ultimately be determined by ground conditions, desired finish, common sense, and good safe mowing practices by the operator.

Grass is best cut when it is dry. Mowing in wet grass can cause plugging resulting in grass clumps behind the mower. Grass should be mowed frequently as shorter clippings deteriorate faster. When mowing in tall grass it is best to raise the cutting height, mow the area, then lower the cutting height, and mow a second time.

After mowing approximately 50 ft., stop the tractor, disengage the PTO, set the brake, turn off the engine, remove the key, and dismount the tractor to see if the mower is adjusted properly. If you need to dismount the tractor on a hill or incline to inspect, adjust, or park the mower for any reason, place wheel chocks under the rear tires for added safety. Once you have made necessary adjustments, you may continue mowing. Do not engage the PTO at high engine rpm and avoid making sharp turns if at all possible. If anyone approaches while you are mowing, disengage the PTO and stop the tractor.

With a little practice and experience you will become very good at operating your Land Pride FDR25 Rear Discharge Grooming Mower. Always remember that there is no substitute for proper maintenance and good safe operating practices. See **"Features and Benefits"** section or **"Product Specifications"** for additional information and performance enhancing options.

Maintenance

Proper servicing and adjustment is the key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly downtime and repair.

Check all bolts and pins after using unit for several hours and on a regular basis thereafter to ensure they are tight and secured. Lubricate components on schedule. Replace worn, damaged or illegible safety labels by obtaining new labels from your Land Pride Dealer.

DANGER

Always secure mower in the up position with solid supports before servicing underside of mower. Never work under equipment supported by hydraulics. Hydraulics can drop equipment if controls are actuated or if hydraulic lines burst. Either situation can drop the mower instantly even when power to the hydraulics is shut off.

DANGER

Perform maintenance only on a mower that is not running. Disengage PTO, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting from tractor to perform maintenance!

DANGER

All V-belt guards must be in good working condition and installed before PTO is engaged. Never allow fingers, hands, or other body extremities to come near a moving V-belt or pulley. Doing so can result in server bodily injury or death.

WARNING

Frequently check all hardware to make certain it is tight and not broken or missing. Such hardware can cause the mower to not preform properly and may lead to breakage that can cause bodily injury or death.

WARNING

Replace worn, damaged, or missing parts only with genuine Land Pride Parts. Replacing parts with other brands can cause the equipment to not perform properly and may lead to breakage that can cause bodily injury or death.

CAUTION

Do not alter the Grooming Mower in a way which will adversely affects its performance or reliability. Doing so can damage the mower, cause personal injury and void the warranty.

Service Mowing Blades

Blade Inspection

Refer to Figure 5-1:

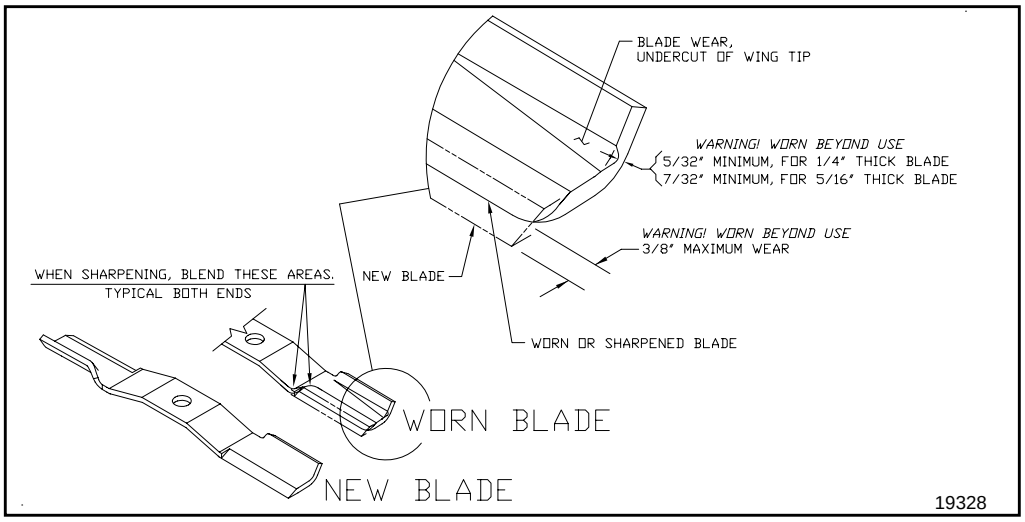
DANGER

Bent, Deformed or Split Blades should be removed from unit and discarded. Never weld a broken or cracked blade. DO NOT attempt to straighten to reuse such blades. ALWAYS replace with a new Land Pride blade to assure safety.

WARNING

DO NOT attempt to modify a blade, such as hard surfacing, heat or cold treating, or by any other method.

1. Check blades for wear. Blade performance will be reduced as blades wear and are resharpened.
2. Check blades to see if they are bent, deformed, or split. **DO NOT** attempt to straighten or weld blades for reuse. They should be removed and discarded.



Inspection of Blades & Sharpening
Figure 5-1

Blade Sharpening or Replacement

CAUTION

ALWAYS wear eye protection and gloves while inspecting, removing, sharpening, and replacing mower blades.

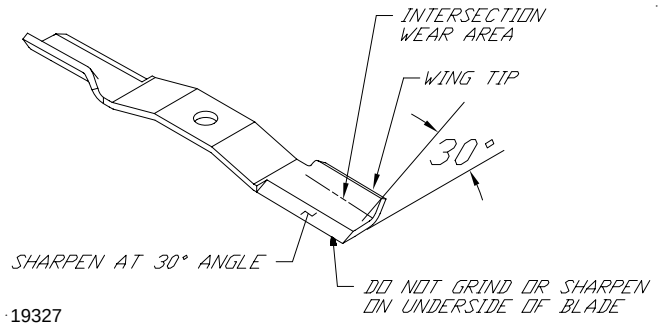
IMPORTANT: Replace mower blades in pairs with genuine Land Pride blades only. Not replacing both blades will result in an out-of-balance condition.

1. If the blade cutting edge is dull or nicked, it should be replaced or sharpened. Remove blades by grasping the end of blade using a rag or a thick, padded glove, while loosening and removing the blade mounting bolt/bolts.

Refer to Figure 5-2:

NOTE: Care should be taken in order not to remove any more material than necessary to sharpen blade.

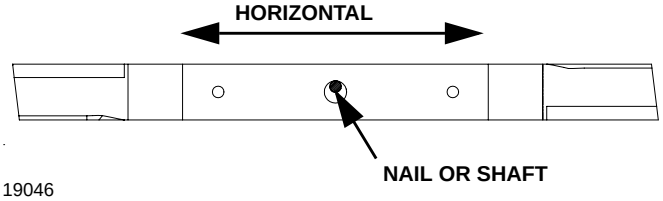
2. Clean blade, blade washer and mounting surface of all debris before replacing or sharpening. Grind cutting edge at the same bevel as the original. See Figure 5-2. Sharpen only the top of the cutting edge to maintain sharpness.



Blade Sharpening
Figure 5-2

Refer to Figure 5-3:

3. Check blade balance by positioning the blade horizontally on a nail or shaft through the center hole. If either end of the blade rotates downward, grind (remove) metal on that end until the blade will balance. The blade is properly balanced when neither end drops. Balance of a blade is generally maintained by removing an equal amount of material from each end of the blade when sharpening.



Blade Balancing
Figure 5-3

IMPORTANT: Always install blade with cutting edge facing direction of rotation and wing tips pointing up.

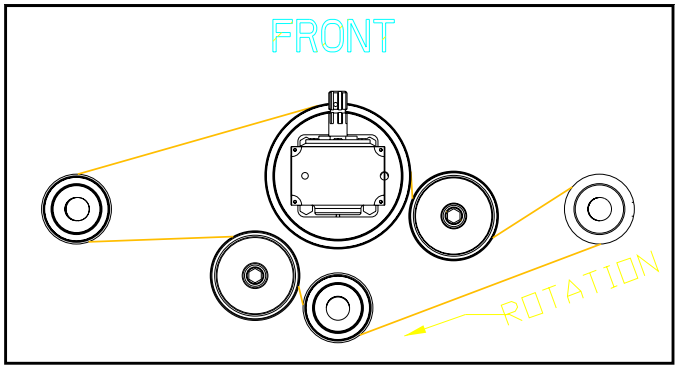
4. Mount blade with wing tips pointing up towards bottom of deck. Reinstall blade, blade washer and bolt. Care should be taken when installing blade bolt not to get it cross threaded. Do not exceed 55 ft.-lbs. of torque on bolt.

V-Belt Installation

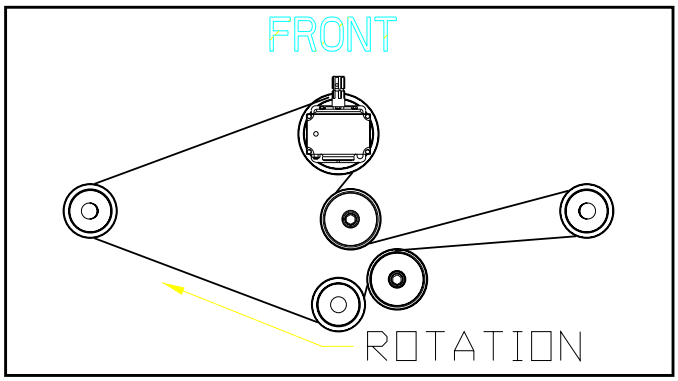
Refer to Figure 5-4 and Figure 5-5:

These illustrations are also on the labels located on the top of the mower decks.

1. Remove right-hand and left-hand belt covers.
2. Disengage belt tension by loosening eyebolt (#1) and removing spring (#2) from the tension-chain link (#3).
3. With tension relieved from belt, remove old belt from pulleys.
4. To install a new belt, be sure the belt is positioned in all the pulley grooves. Engage belt tension by assembling the tension spring back on the eyebolt and tightening the eyebolt to apply tension to new belt. Check the belt tension, refer to Figure 4-2 on page 15.
5. Reinstall all belt covers and secure in place with hardware.



FDR2572 V-Belt Installation
Figure 5-4



FDR2584 V-Belt Installation
Figure 5-5

Storage Instructions

Clean, inspect, service, and make necessary repairs to the Grooming Mower when parking it for long periods and when parking it at the end of a working season. This will help ensure that the mower is ready for field use the next time you hook-up to it.

WARNING

Perform maintenance only on a mower that is not running. Disengage PTO, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting from tractor to perform maintenance!

1. Clean off any dirt or grease that may have accumulated on the deck and moving parts. Scrape off compacted dirt from the bottom of the deck and then wash the surface thoroughly with a garden hose. A coating of oil may also be applied to the lower deck area to minimize oxidation.
2. Check blades and blade bolts for wear and replace if necessary. See **"Service Mowing Blades"** on page 20.
3. Inspect mower for loose, damaged, or worn parts and adjust or replace as needed.
4. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for aerosol touch-up paint. They are also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

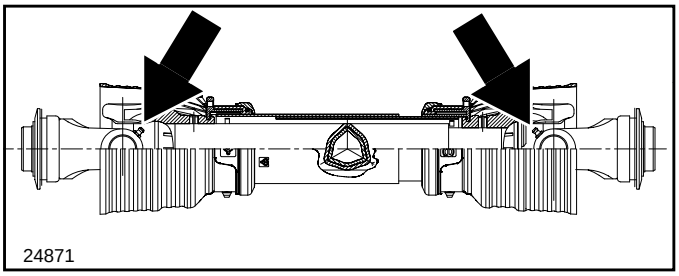
Land Pride Touch-up Paint

Part No.	Part Description
821-011C	PAINT LP BEIGE AEROSOL SPRAY CAN
821-002C	PAINT LP BLACK AEROSOL SPRAY CAN
821-066C	PAINT ORANGE AEROSOL SPRAY CAN

5. Replace all damaged or missing decals.
6. Lubricate as noted in the **"Lubrication"** portion of this section starting on page 23.
7. Store mower on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer mower life.
8. Follow all unhooking instructions on page 18 when disconnecting tractor from mower.

Lubrication

Lubrication Legend	Multi-purpose spray lube	Multi-purpose grease lube	Multi-purpose oil lube	50 Intervals in hours at which lubrication is required

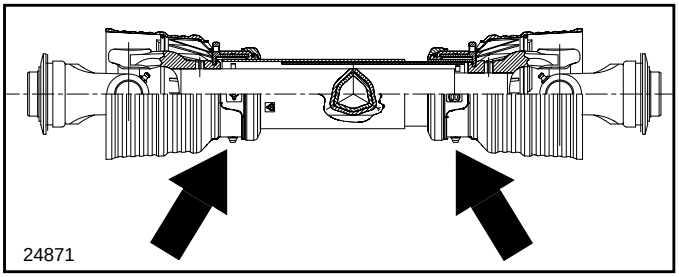


25 Hours

Driveline Shaft U-Joints

Type of Lubrication: Multi-purpose Grease

Quantity - 4 to 8 Pumps

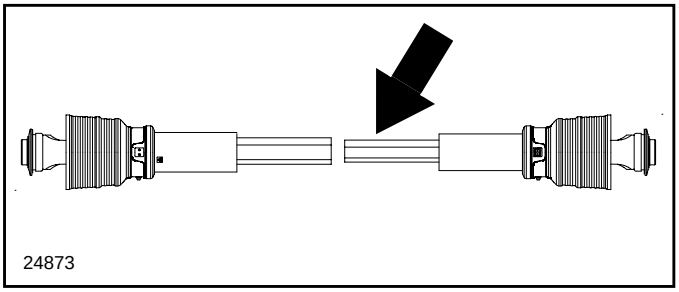


20 Hours

Inner Tube Bearings

Type of Lubrication: Multi-purpose Grease

Quantity - As Required

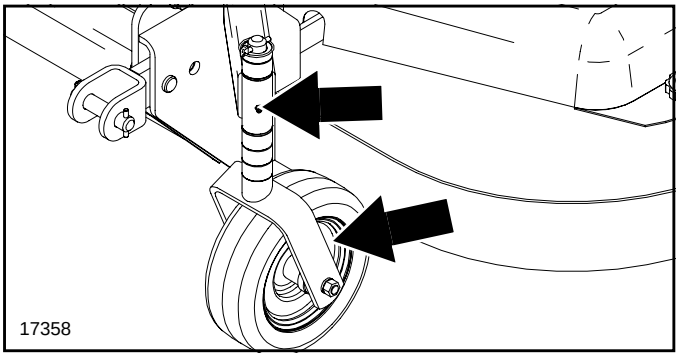


20 Hours

Driveline Profiles

Type of Lubrication: Multi-purpose Grease

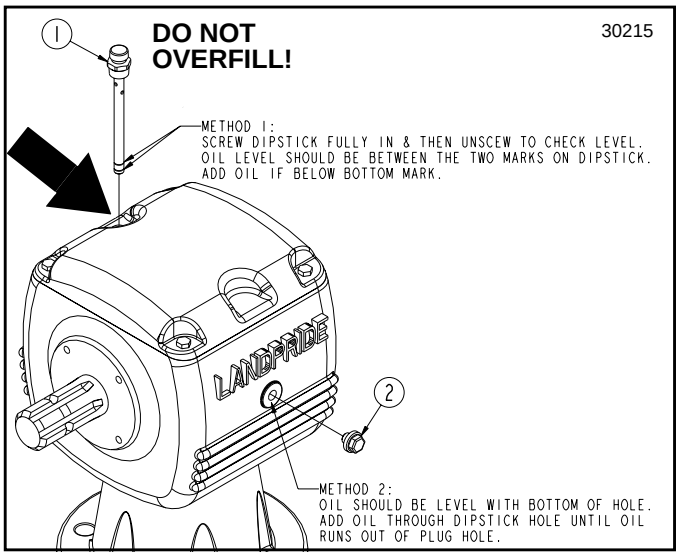
Quantity - Clean & coat inner profile tube of driveline with a light film of grease and then reassemble.



25 Hours

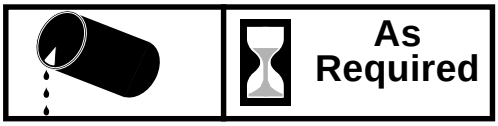
Wheel Support Bushings & Wheel Bearings

Type of Lubrication: Multi-purpose Grease


1
DO NOT
OVERFILL!
30215
METHOD 1:
SCREW DIPSTICK FULLY IN & THEN UNSCEW TO CHECK LEVEL.
OIL LEVEL SHOULD BE BETWEEN THE TWO MARKS ON DIPSTICK.
ADD OIL IF BELOW BOTTOM MARK.
LANDPRIDE
2
METHOD 2:
OIL SHOULD BE LEVEL WITH BOTTOM OF HOLE.
ADD OIL THROUGH DIPSTICK HOLE UNTIL OIL
RUNS OUT OF PLUG HOLE.

IMPORTANT: Your mower is shipped with a vented dipstick packaged in the Operator's Manual bag and should have been installed in the gearbox by your Land Pride dealer. Please see your Land Pride dealer if vented dipstick was not included.

NOTE: Use a suction or siphon pump to drain gearbox of oil when there is not an oil drain plug.



Gearbox

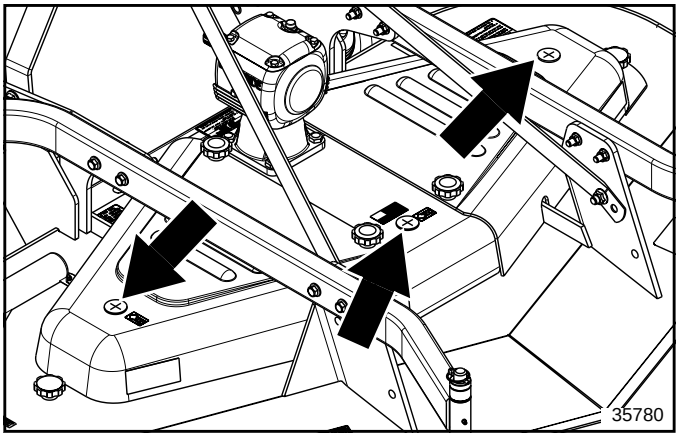
IMPORTANT: Do not overfill gearbox with oil! Oil will expand when hot! Make sure mower is level and oil is cool before checking oil level.

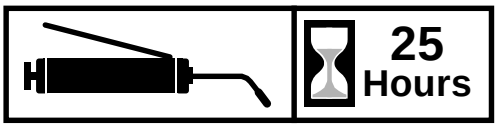
Method 1: Unscrew top vented dipstick (#1). Wipe oil from dipstick and screw dipstick in without tightening. Unscrew dipstick and check oil on dipstick. If below bottom level mark, add recommended gear lube through dipstick hole until oil reaches top mark on dipstick. Reinstall vented dipstick and tighten.

Method 2: Remove side oil plug (#2). If oil is below bottom of plug hole, add recommended gear lube through top dipstick hole until oil flows out of side plug hole. Reinstall and tighten side oil plug (#2) and vented dipstick (#1).

Type of Lubrication: 80-90W EP Gear Lube

Quantity = Fill until oil reaches top mark on dipstick or begins to flow out side plug hole in gearbox.

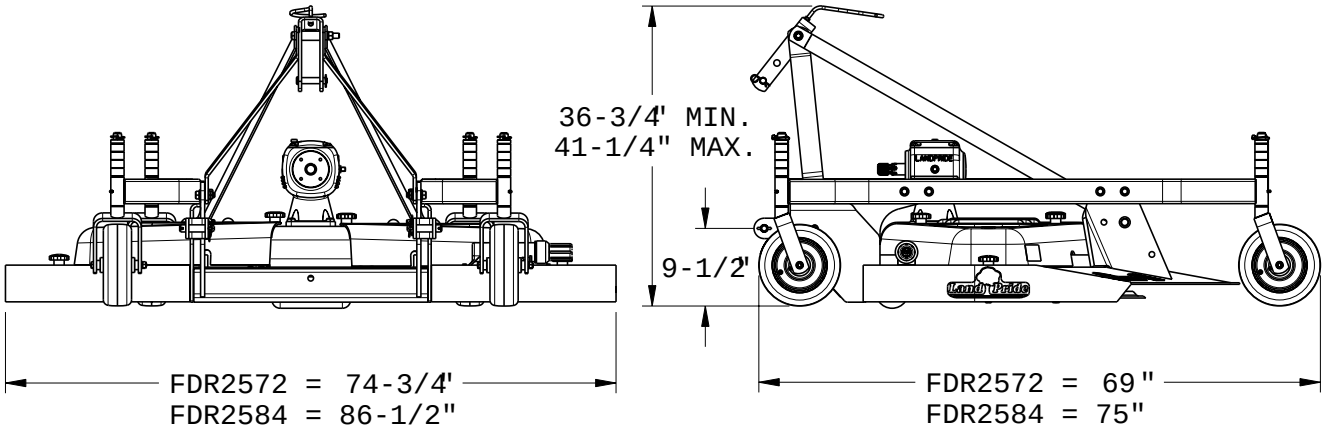




Bearing in Blade Spindle Hubs

Type of Lubrication: Multi-purpose Grease

FDR25 Series Rear Discharge Mowers		
	FDR2572	**FDR2584**
Maximum HP - Engine	50 HP	
Cutting Width	72"	84"
Overall Width	74 7/8"	86 1/2"
Height	35 1/2"	
Length	69"	75"
Weight	718#	812#
Cutting Height (1/2" increments)	3/4" - 5 1/4"	
Deck Material Thickness	3/16"	
Blade Tip Speed	18,130 FPM	17,210 FPM
Blades Construction - 3 each	1/4" x 2 1/2" x 25" Heat Treated Alloy Steel	5/16" x 2 1/2" x 29" Heat Treated Alloy Steel
Blade Options	Standard Blades: Medium Lift Optional Blades: Low Lift, High Lift & Mulching	
Blade Overlap	1 1/4"	
Blade Spindles	Greasable	
Discharge	Rear	
Hitch	Category 1	
Lower Hitch	Floating & Adjustable Clevis with Plated Pins	
Top Link	Floating & Adjustable Clevis	
Castered Gauge Wheels	3 1/4" x 10" Solid Rubber	4" x 11" Semi Solid
Caster Wheel Spindle	1" Diameter with Greasable Bushing	
Drive Train	540 RPM PTO Cast Iron Housing Gearbox With Beveled Gears, 1:2.83 Ratio Spring Loaded Single V-Belt	
Gearbox Oil Capacity & Type	3.5 Pints of 80-90W EP Gear Lube	
Driveline	Heavy-duty w/ quick coupler	
Front Roller	Optional	
Quick Hitch Compatible	Fits Land Pride Quick-Hitch	



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FDR25 Series Rear Discharge Mowers

Features	Benefits
2 Cutting widths	72" and 84"
Gearbox HP rating	15 - 50 HP
Rear discharge	The wide, even dispersal of grass leaves a fine thin layer directly behind the mower, vs. a possible windrow to the side. Keeps grass from blowing in unwanted areas. Easier to mow around objects.
Deflectors	Built-in to throw material and debris down.
Clevis type lower hitch points	Allows for easy hook-up by being able to remove pins and back into clevises.
Floating 3-Point	Top and bottom hitch points float up and down which allows the mower to float over uneven terrain.
5/16" Rolled front on deck	5/16" roll formed front deck edging designed to take heavy abuse.
Frame-over-deck design	Frames takes stress out of deck by supporting it.
3/16" Deck thickness	Heavy deck material to aid in overall strength and longevity. Reinforced spindle mounts.
Lower hitch points adjust in and out	Accommodates many tractor configurations by adjusting in and out.
FDR2572 Only - Solid rubber tires with roller bearings	Solid rubber tires on the FDR2572 are sandwiched between the rim halves, bolted in, and can't go flat. Roller bearings allow for a long life.
FDR2584 Only - Semi solid tires with roller bearings	Semi solid tires on the FDR2584 offer premium flotation. Roller bearings allow for a long life. Semi solid tires offer shock absorption.
Heavy-duty Gauge wheel arms	1/4" Gauge wheel arms increases strength.
Non-aligned gauge wheels	Rear wheels don't track behind the front wheels to reduce laying grass over.
High blade tip speed	72" = 18,130 fpm 84" = 17,210 fpm For cleaner cutting and better dispersion of clippings.
Choices of blades	Low, medium, high-lift, or mulching blades are available to match customer needs and specific applications.
Blade overlap	Blade overlap of 1 1/4" assures no skipping in tight turns.
1 3/8" Machined blade spindle with ball bearings and cast iron housing.	Machined spindle for balanced performance and accuracy, ball bearings for smooth and quiet running, cast iron housing for added protection and durability.
Top greasing spindles	Assures top bearing gets grease. No shields to remove.
Single B-section Kevlar belt	Simple one belt design. Kevlar material adds additional strength.
Vacuum formed ABS belt guards	No scratching, no rattling.
Spring loaded adjustable idler	Allows for constant and proper tension on belt. Better than adjusting gearbox for belt tension.
Blade bar	Bar gives additional support to blade. (Not available on FDR2572)
Top Hitch	Top hitch has two hook-up points which allows greater lifting leverage for smaller tractors.
5 Year Limited Gear Box warranty	Shows our confidence in the gearbox integrity. 5 year Parts & Labor with S/N 329841+.
Driveline hanger	For ease in hookup and storage of driveline. Keeps driveline off ground.
Quick Hitch Compatible	Compatible with Land Pride Quick Hitch for easy attachment and removal increases productivity.

Problem	Solution
Rear discharge area plugged	Check installation of belt.
	Wait until grass dries.
	Raise cutting height of mower and cut grass twice.
	Mow at full throttle (540 PTO rpm), check PTO speed and tractor engine.
	Shift transmission to a lower gear.
CAUTION *Do not try to clean rear discharge area when mower is running. Bodily harm may occur!*	
Belt slipping	Unplug and clean mower deck.
	Remove belt guard shields and clean sheaves.
	Tighten spring take-up eyebolt.
	Replace belt.
Patches of uncut grass	Mow at full throttle (540 PTO rpm), check PTO speed and tractor engine.
	Shift transmission to a lower gear.
	Tighten spring take-up eyebolt.
	Sharpen and balance or replace blade.
Excessive vibration	Replace blades.
	Replace drive belt.
	Replace pulleys or align.
	Remove belt guard shields & clean debris from belt area & sheaves.
Gearbox noisy	Check lubricant level.
Blades scalping grass	Raise cutting height by adjusting wheels.
	Change mowing pattern.
	Reduce speed turns.
Uneven cut	Shift to a lower gear.
	Level mower.
	Sharpen blades & balance or replace.
Tractor loaded down by mower	Mow at full throttle (540 PTO rpm).
	Shift to a lower gear.
	Clean mower.

Torque Values Chart for Common Bolt Sizes

Bolt Size (Inches)	Bolt Head Identification: Grade 2		Grade 5		Grade 8	
in-tpi [1]	N·m [2]	ft-lb [3]	N·m	ft-lb	N·m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1-1/8" - 12	540	395	1210	890	1960	1440
1-1/4" - 7	680	500	1520	1120	2460	1820
1-1/4" - 12	750	555	1680	1240	2730	2010
1-3/8" - 6	890	655	1990	1470	3230	2380
1-3/8" - 12	1010	745	2270	1670	3680	2710
1-1/2" - 6	1180	870	2640	1950	4290	3160
1-1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (Metric)	Bolt Head Identification: 5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x pitch [4]	N·m	ft-lb	N·m	ft-lb	N·m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	l215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[1] in-tpi = nominal thread diameter in inches-threads per inch

[2] N· m = newton-meters

[3] ft-lb= foot pounds

[4] mm x pitch = nominal thread diameter in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit and Drivelines: One year Parts and Labor

Gearbox: (S/N 329841+) 5 years on Parts and Labor

(S/N 329840-) 1 year on Parts and labor

Belts, blades, friction discs in slip-clutch and tires: Considered wear items

This Warranty is limited to the repair or replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized Land Pride dealer. Land Pride reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of purchase by the end user.

IMPORTANT: The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

Model Number _____ **Serial Number** _____

Corporate Office: P.O. Box 5060
Salina, Kansas 67402-5060 USA
www.landpride.com